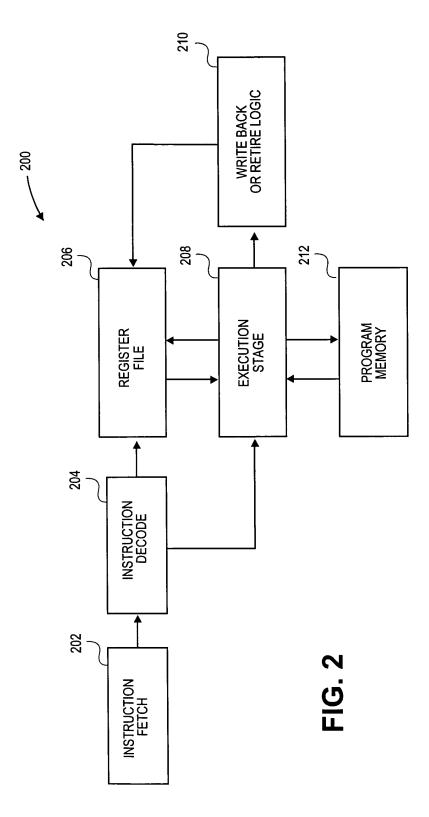


FIG. 1 (PRIOR ART)



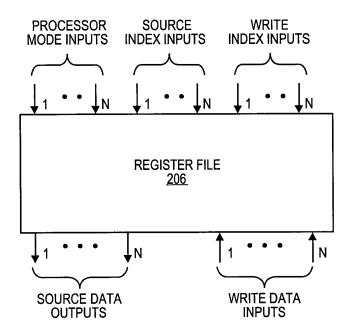


FIG. 3

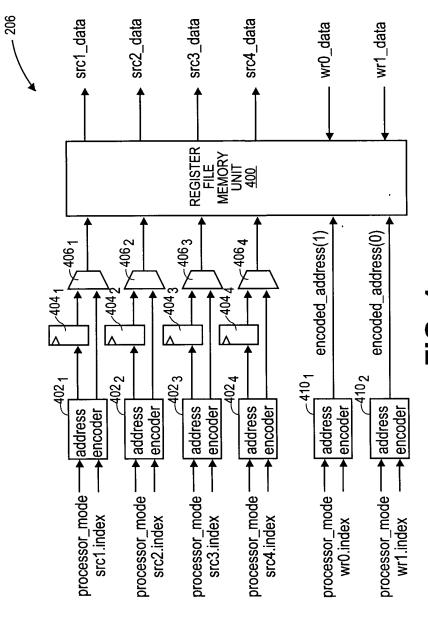
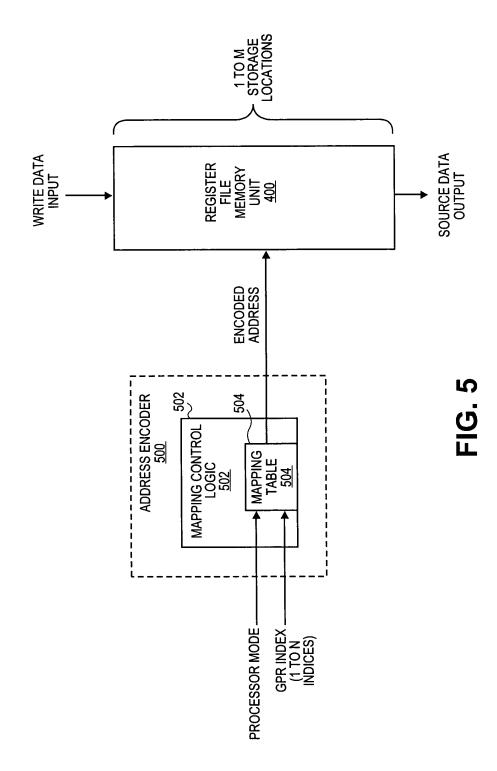


FIG. 4



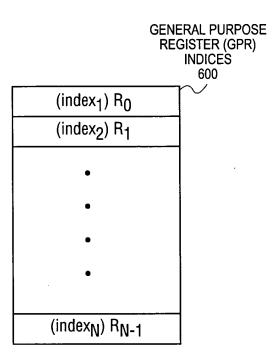


FIG. 6

MAPPING TABLE 504

GPR INDICES	PROCESSOR MODE	ENCODED ADDRESS
Index <sub>1</sub>		ENCODED ADDRESS <sub>1</sub>
•	Mode 1 - Mode K	
IndexN		•
Index <sub>1</sub>		
•	Mode 1 - Mode K	
IndexN		•
•	,	
		•
•	•	
		•
Index <sub>1</sub>		
•	Mode 1 - Mode K	
IndexN		ENCODED ADDRESS <sub>M</sub>

**FIG.** 7

## GENERAL PURPOSE REGISTER (GPR) INDICES 800

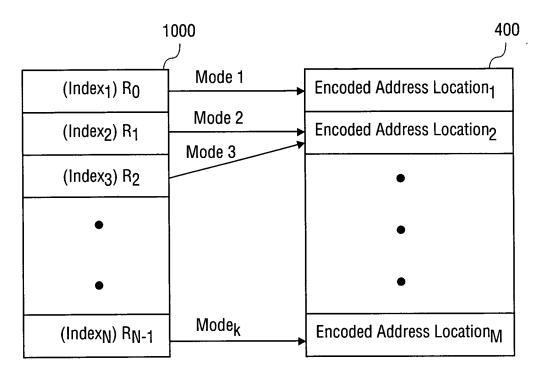
(0000) R <sub>0</sub>
(0001) R <sub>1</sub>
(0010) R <sub>2</sub>
(0011) R <sub>3</sub>
(0100) R <sub>4</sub>
(0101) R <sub>5</sub>
(0110) R <sub>6</sub>
(0111) R <sub>7</sub>
(1000) R <sub>8</sub>
(1001) Rg
(1010) R <sub>10</sub>
(1011) R <sub>11</sub>
(1100) R <sub>12</sub>
(1101) R <sub>13</sub>
(1110) R <sub>14</sub>
(1111) R <sub>15</sub>

FIG. 8

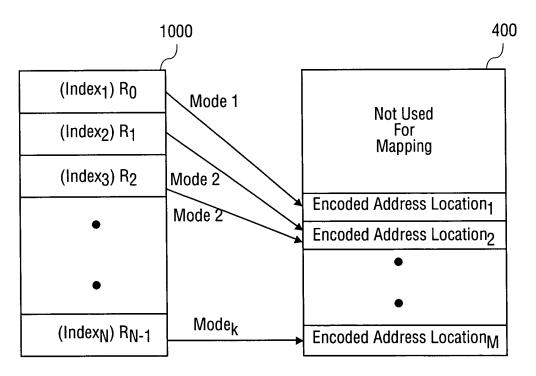
MAPPING TABLE 904

GPR Indices (Registers)	Processor Mode	Encoded Address (memory location)
(0000) R <sub>0</sub>		00000
(0001) R <sub>1</sub>		00001
(0010) R <sub>2</sub>	MODES 1-N	00010
(0011) R <sub>3</sub>	INIODES 1-IN	00011
(0100) R <sub>4</sub>		00100
(0101) R <sub>5</sub>		00101
(0110) R <sub>6</sub>		00110
(0111) R <sub>7</sub>		00111
(1000) R <sub>8</sub>		01000
(1001) Rg		01001
(1010) R <sub>10</sub>	MODE	01010
(1011) R <sub>11</sub>	MODE 1	01011
(1100) R <sub>12</sub>		01100
(1101) R <sub>8</sub>		01101
(1110) Rg		01110
(1111) R <sub>10</sub>	MODE 2	01111
(1110) R <sub>11</sub>		10000
(1100) R <sub>12</sub>		10001
(1100) R <sub>15</sub>		10011
(1110) R <sub>14</sub>	MODE 3	10010
(1100) R <sub>13</sub>		10011
(1110) R <sub>14</sub>	MODE 4	10100
(1100) R <sub>13</sub>	IVIODE 4	10101
(1110) R <sub>14</sub>		10110
(1100) R <sub>13</sub>	MODE 5	10111
(1000) R <sub>8</sub>		11000
(1001) Rg		11001
(1010) R <sub>10</sub>	MODE N	11010
(1011) R <sub>11</sub>		11011
(1100) R <sub>12</sub>		11100
(1101) R <sub>13</sub>		11101
(1110) R <sub>14</sub>		11110
(1111) R <sub>15</sub>		11111

FIG. 9



**FIG. 10A** 



**FIG. 10B** 

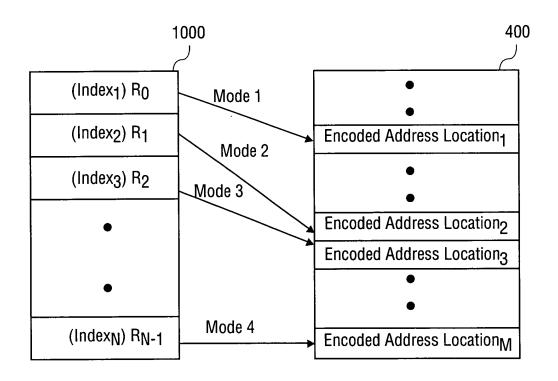


FIG. 10C

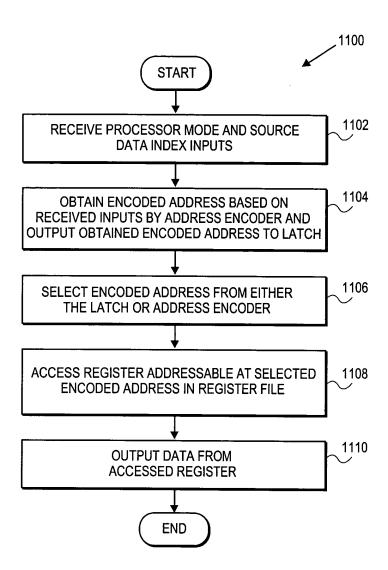


FIG. 11

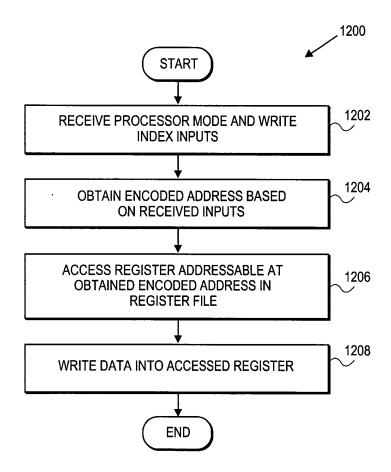


FIG. 12